

Serial Number:

09/634,109

ENTERED

02DO
DT

12-18-90

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
-
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
-
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
-
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
-
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
-
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
-
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:
-
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
-
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Edited Prior Filing Date from 2000-08-19 to 1999-08-19
Consulted Palm to confirm.

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/634,109 DATE: 08/21/2000
 TIME: 17:15:07

Input Set : A:\Cpg.pto
 Output Set: N:\CRF3\08212000\I634109.raw

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4 <110> APPLICANT: Gabriel Vogeli
5 Linda S. Wood
7 <120> TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR EXPRESSED IN BRAIN
9 <130> FILE REFERENCE: 28341/6202NCP
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/634,109
C--> 12 <141> CURRENT FILING DATE: 2000-08-08
14 <150> PRIOR APPLICATION NUMBER: US 09/377,563
15 <151> PRIOR FILING DATE: 1999-08-19
17 <160> NUMBER OF SEQ ID NOS: 12
19 <170> SOFTWARE: PatentIn Ver. 2.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 948
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: (1)..(945)
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33 1 5 10 15
35 ggc atc ttt tcc cac agc cag act gac ctt gtc ctc ttc tct gca gtt 96
36 Gly Ile Phe Ser His Ser Gln Thr Asp Leu Val Leu Phe Ser Ala Val
37 20 25 30
39 atg gtg gtc ttc aca gtg gcc ctc tgt ggg aat gtc ctc ctc atc ttc 144
40 Met Val Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
41 35 40 45
43 ctc atc tac ctg gac gct gga ctt cac acc ccc atg tac ttc ttc ctc 192
44 Leu Ile Tyr Leu Asp Ala Gly Leu His Thr Pro Met Tyr Phe Phe Leu
45 50 55 60
47 agc cag ctc tcc ctc atg gac ctc atg ttg gtc tgt aac att gtg cca 240
48 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Asn Ile Val Pro
49 65 70 75 80
51 aag atg gca gcc aac ttc ctg tct ggc agg aag tcc atc tcc ttt gtg 288
52 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
53 85 90 95
55 ggc tgt ggc ata caa att ggc ttt ttt gtc tct ctt gtg gga tct gag 336
56 Gly Cys Gly Ile Gln Ile Gly Phe Phe Val Ser Leu Val Gly Ser Glu
57 100 105 110
59 ggg ctc ttg ctg gga ctc atg gct tat gac cac tac gtg gcc gtt agc 384
60 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp His Tyr Val Ala Val Ser
61 115 120 125
64 cac cca ctt cac tat ccc atc ctc atg aat cag agg gtc tgt ctc cag 432
65 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
66 130 135 140
68 att act ggg agc tcc tgg gcc ttt ggg ata ata gat gga gtg att cag 480
69 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Val Ile Gln

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Input Set : A:\Cpg.pto

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70 145          150          155          160
72 atg gtg gca gcc atg ggc tta cct tac tgt ggc tca agg agc gtg gat 528
73 Met Val Ala Ala Met Gly Leu Pro Tyr Cys Gly Ser Arg Ser Val Asp
74          165          170          175
76 cac ttt ttc tgt gag gta caa gct tta ttg aag ctg gcc tgt gca gac 576
77 His Phe Phe Cys Glu Val Gln Ala Leu Leu Lys Leu Ala Cys Ala Asp
78          180          185          190
80 act tcc ctt ttt gac acc ctc ctc ttt gct tgc tgt gtc ttc atg ctt 624
81 Thr Ser Leu Phe Asp Thr Leu Leu Phe Ala Cys Cys Val Phe Met Leu
82          195          200          205
84 ctc ctt ccc ttc tcc atc atc atg gcc tcc tat gct tgc atc cta ggg 672
85 Leu Leu Pro Phe Ser Ile Ile Met Ala Ser Tyr Ala Cys Ile Leu Gly
86          210          215          220
88 gct gtg ctc cga ata cgc tct gct cag gcc tgg aaa aaa gcc ctg gcc 720
89 Ala Val Leu Arg Ile Arg Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
90 225          230          235          240
92 acc tgc tcc tcc cac cta aca gct gtc acc ctc ttc tat ggg gca gcc 768
93 Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
94          245          250          255
96 atg ttc atg tac ctg agg cct agg cgc tac cgg gcc cct agc cat gac 816
97 Met Phe Met Tyr Leu Arg Pro Arg Arg Tyr Arg Ala Pro Ser His Asp
98          260          265          270
100 aag gtg gcc tct atc ttc tac aca gtc ctt act ccc atg ctg aac ccc 864
101 Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
102          275          280          285
104 ctc att tac agc ttg agg aat ggg gag gtg atg ggg gca ctg agg aag 912
105 Leu Ile Tyr Ser Leu Arg Asn Gly Glu Val Met Gly Ala Leu Arg Lys
106          290          295          300
108 ggg ctg gac cgc tgc agg att ggc agc cag cac tga 948
109 Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
110 305          310          315
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114 <211> LENGTH: 315
115 <212> TYPE: PRT
116 <213> ORGANISM: Homo sapiens
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122 Gly Ile Phe Ser His Ser Gln Thr Asp Leu Val Leu Phe Ser Ala Val
123          20          25          30
126 Met Val Val Phe Thr Val Ala Leu Cys Gly Asn Val Leu Leu Ile Phe
127          35          40          45
129 Leu Ile Tyr Leu Asp Ala Gly Leu His Thr Pro Met Tyr Phe Phe Leu
130          50          55          60
132 Ser Gln Leu Ser Leu Met Asp Leu Met Leu Val Cys Asn Ile Val Pro
133 65          70          75          80
135 Lys Met Ala Ala Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Val
136          85          90          95
138 Gly Cys Gly Ile Gln Ile Gly Phe Phe Val Ser Leu Val Gly Ser Glu

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Input Set : A:\Cpg.pto
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139                               100                               105                               110
141 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp His Tyr Val Ala Val Ser
142                               115                               120                               125
144 His Pro Leu His Tyr Pro Ile Leu Met Asn Gln Arg Val Cys Leu Gln
145                               130                               135                               140
147 Ile Thr Gly Ser Ser Trp Ala Phe Gly Ile Ile Asp Gly Val Ile Gln
148 145                               150                               155                               160
150 Met Val Ala Ala Met Gly Leu Pro Tyr Cys Gly Ser Arg Ser Val Asp
151                               165                               170                               175
153 His Phe Phe Cys Glu Val Gln Ala Leu Leu Lys Leu Ala Cys Ala Asp
154                               180                               185                               190
156 Thr Ser Leu Phe Asp Thr Leu Leu Phe Ala Cys Cys Val Phe Met Leu
157                               195                               200                               205
159 Leu Leu Pro Phe Ser Ile Ile Met Ala Ser Tyr Ala Cys Ile Leu Gly
160                               210                               215                               220
162 Ala Val Leu Arg Ile Arg Ser Ala Gln Ala Trp Lys Lys Ala Leu Ala
163 225                               230                               235                               240
165 Thr Cys Ser Ser His Leu Thr Ala Val Thr Leu Phe Tyr Gly Ala Ala
166                               245                               250                               255
168 Met Phe Met Tyr Leu Arg Pro Arg Arg Tyr Arg Ala Pro Ser His Asp
169                               260                               265                               270
171 Lys Val Ala Ser Ile Phe Tyr Thr Val Leu Thr Pro Met Leu Asn Pro
172                               275                               280                               285
174 Leu Ile Tyr Ser Leu Arg Asn Gly Glu Val Met Gly Ala Leu Arg Lys
175                               290                               295                               300
177 Gly Leu Asp Arg Cys Arg Ile Gly Ser Gln His
178 305                               310                               315
181 <210> SEQ ID NO: 3
182 <211> LENGTH: 22
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence: PRIMER
188 SEQUENCE
190 <400> SEQUENCE: 3
191 gcctctatct tctacacagt cc                                     22
194 <210> SEQ ID NO: 4
195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: PRIMER
201 SEQUENCE
203 <400> SEQUENCE: 4
204 ccaaaacctt taaaccatcc                                     20
207 <210> SEQ ID NO: 5
208 <211> LENGTH: 59
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence

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212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: PRIMER
214 SEQUENCE
216 <400> SEQUENCE: 5
217 gcactagtaa tacgactcac tatagggaga ccaccatggg aagatgggtg aaccagtcc 59
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221 <211> LENGTH: 60
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: PRIMER
227 SEQUENCE
229 <400> SEQUENCE: 6
230 gactggatcc cccgggcttt tttttttttt ttgcggccgc tcagtgtctg ctgccaatcc 60
233 <210> SEQ ID NO: 7
234 <211> LENGTH: 9
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: MAP KINASE
240 SUBSTRATE PEPTIDE
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244 1 5
247 <210> SEQ ID NO: 8
248 <211> LENGTH: 316
249 <212> TYPE: PRT
250 <213> ORGANISM: Homo sapiens
252 <400> SEQUENCE: 8
253 Met Asp Asn Gln Ser Ser Thr Pro Gly Phe Leu Leu Leu Gly Phe Ser
254 1 5 10 15
256 Glu His Pro Gly Leu Gly Arg Thr Leu Phe Val Asp Val Ile Thr Ser
257 20 25 30
259 Tyr Leu Leu Thr Leu Val Gly Asn Thr Leu Ile Ile Leu Leu Ser Ala
260 35 40 45
262 Leu Asp Thr Lys Leu His Ser Pro Met Tyr Phe Phe Leu Ser Asn Leu
263 50 55 60
265 Ser Phe Leu Asp Leu Cys Phe Thr Thr Ser Cys Val Pro Gln Met Leu
266 65 70 75 80
268 Ala Asn Leu Trp Gly Pro Lys Lys Thr Ile Ser Phe Leu Asp Cys Ser
269 85 90 95
271 Val Gln Ile Phe Ile Phe Leu Ser Leu Gly Thr Thr Glu Cys Ile Leu
272 100 105 110
274 Met Lys Val Met Ala Phe Asp Arg Tyr Val Ala Val Cys Gln Pro Leu
275 115 120 125
277 His Tyr Ala Thr Ile Ile His Pro Arg Leu Cys Trp Gln Leu Ala Ser
278 130 135 140
281 Val Ala Trp Val Ile Gly Leu Val Gly Ser Val Val Gln Thr Pro Ser
282 145 150 155 160

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Input Set : A:\Cpg.pto

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284 Thr Leu His Leu Pro Phe Cys Pro Asp Arg Gln Val Asp Asp Phe Val
285                               165                               170                               175
287 Cys Glu Val Pro Ala Leu Ile Arg Leu Ser Cys Glu Asp Thr Ser Tyr
288                               180                               185                               190
290 Asn Glu Ile Gln Val Ala Val Ala Ser Val Phe Ile Leu Val Val Pro
291                               195                               200                               205
293 Leu Ser Leu Ile Leu Val Ser Tyr Gly Ala Ile Thr Trp Ala Val Leu
294                               210                               215                               220
296 Arg Ile Asn Ser Ala Thr Ala Trp Arg Lys Ala Phe Gly Thr Cys Ser
297 225                               230                               235                               240
299 Ser His Leu Thr Val Val Thr Leu Phe Tyr Ser Ser Val Ile Ala Val
300                               245                               250                               255
302 Tyr Leu Gln Pro Lys Asn Pro Tyr Ala Gln Gly Arg Gly Lys Phe Phe
303                               260                               265                               270
305 Gly Leu Phe Tyr Ala Val Gly Thr Pro Ser Leu Asn Pro Leu Val Tyr
306                               275                               280                               285
308 Thr Leu Arg Asn Lys Glu Ile Lys Arg Ala Leu Arg Arg Leu Leu Gly
309                               290                               295                               300
312 Lys Glu Arg Asp Ser Arg Glu Ser Trp Arg Ala Ala
313 305                               310                               315
316 <210> SEQ ID NO: 9
317 <211> LENGTH: 223
318 <212> TYPE: PRT
319 <213> ORGANISM: Mus musculus
321 <400> SEQUENCE: 9
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325 Lys Met Ala Val Asn Phe Leu Ser Gly Arg Lys Ser Ile Ser Phe Ala
326                               20                               25                               30
328 Gly Cys Gly Ile Gln Ile Gly Phe Phe Val Ser Leu Val Gly Ser Glu
329                               35                               40                               45
331 Gly Leu Leu Leu Gly Leu Met Ala Tyr Asp Arg Tyr Val Ala Ile Ser
332                               50                               55                               60
334 His Pro Leu His Tyr Pro Ile Leu Met Ser Gln Lys Val Cys Leu Gln
335 65                               70                               75                               80
337 Ile Ala Gly Ser Ser Trp Ala Phe Gly Ile Leu Asp Gly Ile Ile Gln
338                               85                               90                               95
340 Met Val Ala Ala Met Ser Leu Pro Tyr Cys Gly Ser Arg Tyr Ile Asp
341                               100                              105                              110
343 His Phe Phe Cys Glu Val Pro Ala Leu Leu Lys Leu Ala Cys Ala Asp
344                               115                              120                              125
346 Thr Ser Leu Phe Asp Thr Leu Leu Phe Ala Cys Cys Val Phe Met Leu
347                               130                              135                              140
349 Leu Leu Pro Phe Ser Ile Ile Val Thr Ser Tyr Ala Arg Ile Leu Gly
350 145                              150                              155                              160
352 Ala Val Leu Arg Met His Ser Ala Gln Ser Arg Lys Lys Ala Leu Ala
353                               165                               170                               175
355 Thr Cys Ser Ser His Leu Thr Ala Val Ser Leu Phe Tyr Gly Ala Ala
356                               180                              185                              190

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/634,109

DATE: 08/21/2000

TIME: 17:15:08

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\08212000\I634109.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date